



## Postgraduate Certificate

## Pilates in Lower Limb Disorders

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Technological University
- » Schedule: at your own pace
- » Exams: online

Website: www.techtitute.com/us/sports-science/postgraduate-certificate/pilates-lower-limb-disorders

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## tech 06 | Introduction

In sports, the lower extremities are the balance, stability and the essential axis to give start and continuity to a technical movement that the body must exercise. Therefore, multiple parts of this area are exposed to breakage or trauma according to the demand and fatigue of the same. In this way, Pilates and therefore flexibility have been essential in the prevention of injuries. By incorporating this discipline in different sports activities has been of great importance for athletes in recovery and physical rehabilitation.

In this way, the different investigations and studies carried out in this field have continued to advance, making the Pilates Method an important part of the great feats of the most important athletes in the world. Given the importance of this discipline, TECH has decided to develop this Postgraduate Certificate, which will provide the professionals with updates on Pilates in Lower Limb Disorders.

Students will enhance their skills related to the adequacy of protocols in specific exercises for the recovery process of injuries, as well as exercises on machines and implements. A program that has the support of a specialized teaching team and at the same time, accompanied by quality multimedia content that offers dynamism and comfort with the online mode

Also, TECH emphasizes comfort and excellence, which is why this program offers the most complete and highest quality update, being a program of great flexibility as students only need a device with an Internet connection to easily access the virtual platform from the comfort of the place where they are.

This **Postgraduate Certificate in Pilates in Lower Limb Disorders** contains the most complete and up-to-date scientific program on the market. The most important features include:

- The development of practical cases presented by experts in Physiotherapy and Pilates
- The graphic, schematic, and practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional practice
- Practical exercises where self-assessment can be used to improve learning
- Its special emphasis on innovative methodologies
- Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- Content that is accessible from any fixed or portable device with an Internet connection



Pilates is so important in sports disciplines that you will delve into concepts such as stability, flexibility and muscle strengthening"



If you want to be at the forefront of the Pilates Method, with TECH you will be able to do so by taking the most complete updates in the sector"

The program's teaching staff includes professionals from the field who contribute their work experience to this educational program, as well as renowned specialists from leading societies and prestigious universities.

The multimedia content, developed with the latest educational technology, will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide immersive education programmed to learn in real situations.

This program is designed around Problem-Based Learning, whereby the professional must try to solve the different professional practice situations that arise during the academic year For this purpose, the students will be assisted by an innovative interactive video system created by renowned and experienced experts.

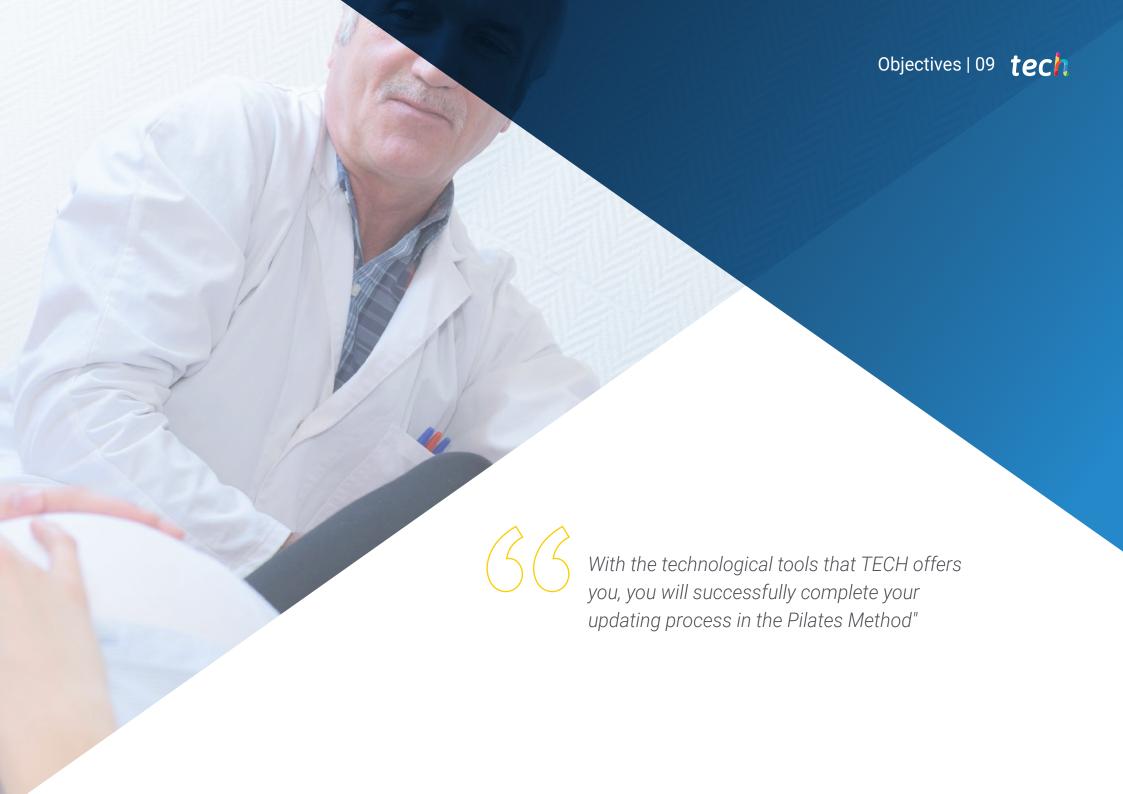
You will enhance your skills related to nerve entrapment in the lower limb.

TECH provides comfort with its flexible schedule and access to its virtual platform from an electronic device with an Internet connection.





This Postgraduate Certificate in Pilates in Lower Limb Disorders has been developed mainly to provide the specialists with the most recent developments in the field of Sports Sciences. Therefore, TECH provides different tools of technological innovation, ensuring the success of the process and completion of the program. At the end of this program, the graduates will have completed an effective update through case studies that will allow them to integrate the most appropriate exercises for each condition.



## tech 10 | Objectives



### **General Objectives**

- Enhance knowledge and professional skills in the practice and teaching of Pilates exercises on the floor, on different machines and with implements
- Differentiate the applications of Pilates exercises and the adaptations to be made for each patient
- Establish an exercise protocol adapted to the symptoms and pathology of each patient
- Delimit the progressions and regressions of the exercises according to the different phases in the recovery process of an injury
- Avoiding exercises that are contraindicated according to the previous assessment of patients and clients
- · Handle in depth the apparatus used in the Pilates Method
- Provide the necessary information to be able to search for scientific and updated information on Pilates treatments applicable to different pathologies
- Analyze the needs and improvements of Pilates equipment in a therapeutic space destined to Pilates exercise
- Develop actions that improve the effectiveness of Pilates exercises based on the principles of the method
- Perform correctly and analytically the exercises based on the Pilates Method
- Analyze the physiological and postural changes that affect the pregnant woman
- Design exercises adapted to the woman in the course of pregnancy until delivery
- Describe the application of the Pilates Method in high-level athletes







## **Specific Objectives**

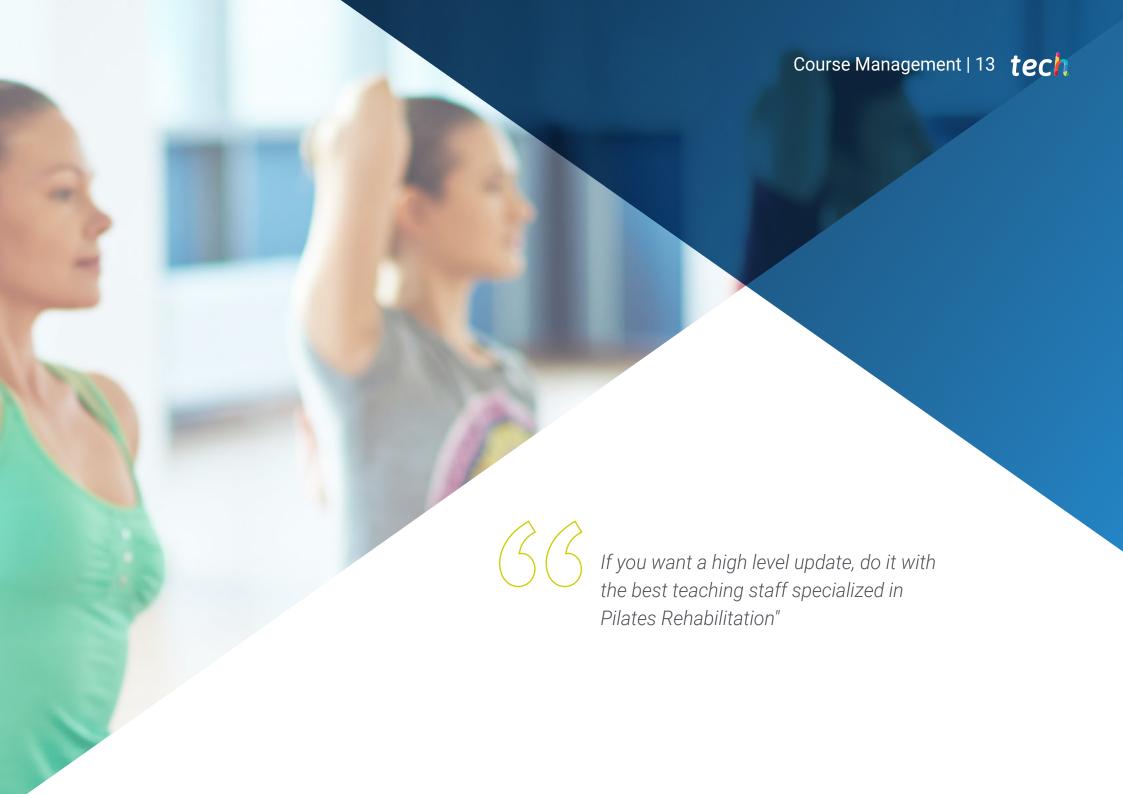
- Detect distinctive characteristics of each injury
- Address the alterations through exercises based on the Pilates Method
- Adapt specific exercise protocols for the injury recovery process



During the development of the academic program you will find content related to exercises indicated in Mat, in Machines and with Implements"

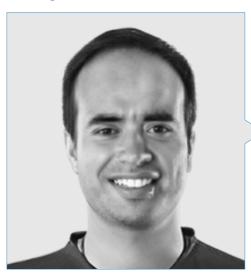






## tech 14 | Course Management

#### Management



#### Mr. Sergio González Arganda

- Physiotherapist of Atlético Madrid Football Club
- CEO Physio Domicilio Madrid
- Professor in the Professional Master's Degree in Physical Preparation and Sports Rehabilitation in Soccer
- Professor in the Postgraduate Diploma in Clinical Pilates
- Professor in the Professional Master's Degree in Biomechanics and Sports Physiotherapy
- Professional Master's Degree in Osteopathy of the Locomotor System by the Madrid School of Osteopathy
- Postgraduate Diploma in Pilates Rehabilitation by the Royal Spanish Gymnastics Federation
- Professional Master's Degree in Biomechanics Applied to Injury Assessment and Advanced Techniques in Physiotherapy
- Graduate in Physiotherapy at Comillas Pontifical University



## Course Management | 15 tech

#### **Professors**

#### Mr. Pérez Costa, Eduardo

- CEO of Move2Be Physiotherapy and Readaptation
- Freelance physiotherapist, home treatment in Madrid
- Physiotherapist Natal Clinic San Sebastian de los Reyes
- Sports rehabilitation of the Zona Press Basketball Club
- Physiotherapist in the subsidiary of the UD Sanse
- Physiotherapist on the field with the Marcet Foundation
- Physiotherapist at Pascual & Muñoz clinic
- Physiotherapist at Fisio Life Plus clinic
- Professional Master's Degree in Manual Physiotherapy in the locomotor apparatus at the University of Alcalá
- Degree in Physiotherapy from the University of Alcala

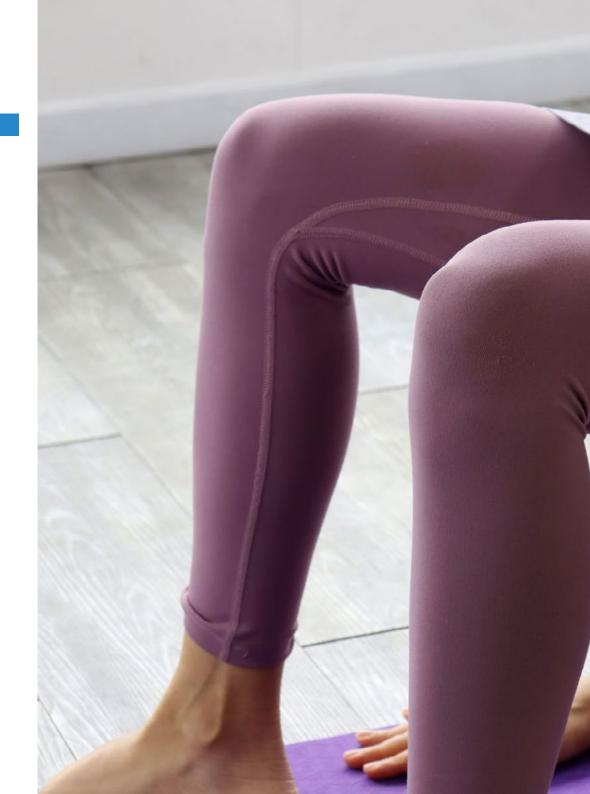




## tech 18 | Structure and Content

#### Module 1. Pilates in Lower Limb Disorders

- 1.1. Basic Anatomical Recall
  - 1.1.1. Osteology of the Lower Limb
  - 1.1.2. Myology of the Lower Limb
  - 1.1.3. Biomechanics of the Lower Limb
  - 1.1.4. Good Practices
- 1.2. Frequent Pathologies Suitable for Treatment with Pilates
  - 1.2.1. Growth Pathologies
  - 1.2.2. Pathologies in the Athlete
  - 1.7.3. Other Types of Pathologies
  - 1.7.4. Conclusions
- 1.3. Indicated Exercises in Mat, in Machines and with Implements. General Protocol
  - 1.3.1. Dissociation Exercises
  - 1.3.2. Mobilization Exercises
  - 1.3.3. Strengthening Exercises
  - 1.3.4. Functional Exercises
- 1.4. Hip Pathology
  - 1.4.1. Joint Pathology
  - 1.4.2. Muscle-Tendon Pathology
  - 1.4.3. Surgical Pathology. Prosthesis
  - 1.4.4. Hip Exercises
- 1.5. Knee Pathology
  - 1.5.1. Articular Pathology
  - 1.5.2. Muscle-Tendon Pathology
  - 1.5.3. Surgical Pathology. Prosthesis
  - 1.5.4. Knee Exercises
- 1.6. Ankle Pathology
  - 1.6.1. Articular Pathology
  - 1.6.2. Muscle-Tendon Pathology
  - 1.6.3. Surgical Pathology
  - 1.6.4. Ankle Exercises





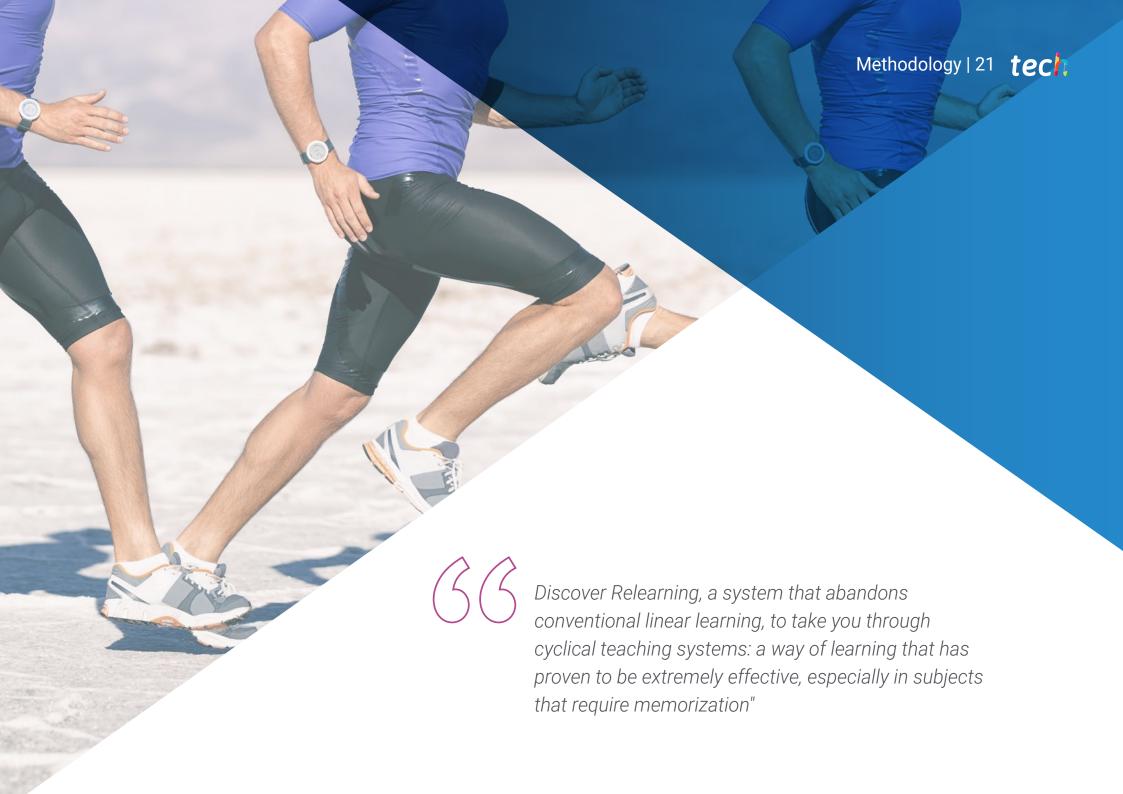
## Structure and Content | 19 tech

- I.7. Foot Pathology
  - 1.7.1. Joint and Fascial Pathology
  - 1.7.2. Muscle-Tendon Pathology
  - 1.7.3. Surgical Pathology
  - 1.7.4. Foot Exercises
- 1.8. Nerve Entrapments in the Lower Limb
  - 1.8.1. Brachial Plexus
  - 1.8.2. Peripheral Nerves
  - 1.8.3. Types of Pathology
  - 1.8.4. Exercises for Nerve Entrapments in the Lower Limb
- 1.9. Analysis of the Anterolateral Chain of the Lower Limb
  - 1.9.1. What is the Anterolateral Chain and how Important is it for the Patient?
  - 1.9.2. Important Aspects for Assessment
  - 1.9.3. Relationship of the Chain with Pathology Already Described
  - 1.9.4. Exercises for Working on the Anterolateral Chain
- 1.10. Analysis of the Postero-medial Chain of the Lower Limb
  - 1.10.1. What is the Postero-medial Chain and how Important is it for the Patient?
  - 1.10.2. Important Aspects for Assessment
  - 1.10.3. Relationship of the Complex with Pathology Already Described
  - 1.10.4. Exercises of Work on the Postero-Medial Chain



With TECH you will gain and strengthen your skills to perform Pilates exercises that work the brachial plexus and peripheral nerves"





## tech 22 | Methodology

#### Case Study to contextualize all content

Our program offers a revolutionary approach to developing skills and knowledge. Our goal is to strengthen skills in a changing, competitive, and highly demanding environment.



At TECH, you will experience a learning methodology that is shaking the foundations of traditional universities around the world"



You will have access to a learning system based on repetition, with natural and progressive teaching throughout the entire syllabus.



The student will learn to solve complex situations in real business environments through collaborative activities and real cases.

#### A learning method that is different and innovative

This TECH program is an intensive educational program, created from scratch, which presents the most demanding challenges and decisions in this field, both nationally and internationally. This methodology promotes personal and professional growth, representing a significant step towards success. The case method, a technique that lays the foundation for this content, ensures that the most current economic, social and professional reality is taken into account.



Our program prepares you to face new challenges in uncertain environments and achieve success in your career"

The case method is the most widely used learning system in the best faculties in the world. The case method was developed in 1912 so that law students would not only learn the law based on theoretical content. It consisted of presenting students with real-life, complex situations for them to make informed decisions and value judgments on how to resolve them. In 1924, Harvard adopted it as a standard teaching method.

What should a professional do in a given situation? This is the question we face in the case method, an action-oriented learning method. Throughout the program, the studies will be presented with multiple real cases. They will have to combine all their knowledge and research, and argue and defend their ideas and decisions.



#### Relearning Methodology

TECH effectively combines the Case Study methodology with a 100% online learning system based on repetition, which combines 8 different teaching elements in each lesson.

We enhance the Case Study with the best 100% online teaching method: Relearning.

In 2019, we obtained the best learning results of all online universities in the world.

At TECH, you will learn using a cutting-edge methodology designed to train the executives of the future. This method, at the forefront of international teaching, is called Relearning.

Our university is the only one in the world authorized to employ this successful method. In 2019, we managed to improve our students' overall satisfaction levels (teaching quality, quality of materials, course structure, objectives...) based on the best online university indicators.



### Methodology | 25 tech

In our program, learning is not a linear process, but rather a spiral (learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically. With this methodology, we have trained more than 650,000 university graduates with unprecedented success in fields as diverse as biochemistry, genetics, surgery, international law, management skills, sports science, philosophy, law, engineering, journalism, history, markets, and financial instruments. All this in a highly demanding environment, where the students have a strong socio-economic profile and an average age of 43.5 years.

Relearning will allow you to learn with less effort and better performance, involving you more in your training, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation for success.

From the latest scientific evidence in the field of neuroscience, not only do we know how to organize information, ideas, images and memories, but we know that the place and context where we have learned something is fundamental for us to be able to remember it and store it in the hippocampus, to retain it in our long-term memory.

In this way, and in what is called neurocognitive context-dependent e-learning, the different elements in our program are connected to the context where the individual carries out their professional activity.

This program offers the best educational material, prepared with professionals in mind:



#### **Study Material**

All teaching material is produced by the specialists who teach the course, specifically for the course, so that the teaching content is highly specific and precise.

These contents are then applied to the audiovisual format, to create the TECH online working method. All this, with the latest techniques that offer high quality pieces in each and every one of the materials that are made available to the student.



#### **Classes**

There is scientific evidence suggesting that observing third-party experts can be useful.

Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.



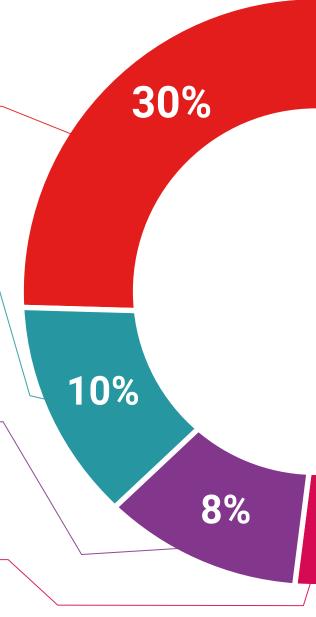
#### **Practising Skills and Abilities**

They will carry out activities to develop specific competencies and skills in each thematic area. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop in the context of the globalization that we are experiencing.

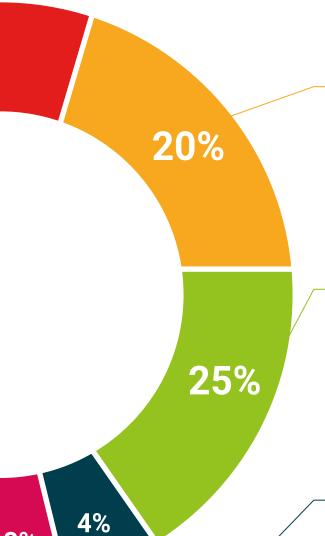


#### **Additional Reading**

Recent articles, consensus documents and international guidelines, among others. In TECH's virtual library, students will have access to everything they need to complete their course.



## Methodology | 27 tech



#### **Case Studies**

Students will complete a selection of the best case studies chosen specifically for this situation. Cases that are presented, analyzed, and supervised by the best specialists in the world.



#### **Interactive Summaries**

The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.



This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".

#### **Testing & Retesting**

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We periodically evaluate and re-evaluate students' knowledge throughout the program, through assessment and self-assessment activities and exercises, so that they can see how they are achieving their goals.





## tech 30 | Certificate

This **Postgraduate Certificate in Pilates in Lower Limb Disorders** contains the most complete and up-to-date scientific on the market.

After the student has passed the assessments, they will receive their corresponding **Postgraduate Certificate** issued by **TECH Technological University** via tracked delivery\*.

The diploma issued by **TECH Technological University** will reflect the qualification obtained in the Postgraduate Certificate, and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional career evaluation committees.

Title: Postgraduate Certificate in Pilates in Lower Limb Disorders
Official N° of Hours: **150 h.** 



health confidence people
education information tutors
guarantee accreditation teaching
institutions technology learning
community commitment



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- » Duration: 6 weeks
- » Certificate: TECH Technological University
- » Schedule: at your own pace
- » Exams: online

